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Dept. of Mathematics 2020 -2021, Class - X

Work sheet - Real Numbers (3)

- If a and b are positive integers, then $\text{HCF}(a, b) \times \text{LCM}(a, b) =$
(a) $a \times b$ (b) $a + b$ (c) $a - b$ (d) a/b
- If the HCF of two numbers is 1, then the two numbers are called
(a) composite (b) relatively prime or co-prime
(c) perfect (d) irrational numbers
- The decimal expansion of $\frac{93}{1500}$ will be
(a) terminating (b) non-terminating (c) non-terminating repeating
(d) non-terminating non-repeating.
- The HCF of 52 and 130 is
(a) 52 (b) 130 (c) 26 (d) 13
- For some integer q , every odd integer is of the form
(a) q (b) $q + 1$ (c) $2q$ (d) none of these
- For some integer q , every even integer is of the form
(a) q (b) $q + 1$ (c) $2q$ (d) none of these
- Euclid's division lemma state that for any positive integers a and b , there exist unique integers q and r such that $a = bq + r$ where r must satisfy
(a) $1 < r < b$ (b) $0 < r \leq b$ (c) $0 \leq r < b$ (d) $0 < r < b$
- The HCF of smallest composite number and the smallest prime number is
(a) 0 (b) 1 (c) 2 (d) 3
- Given that $\text{HCF}(1152, 1664) = 128$ the $\text{LCM}(1152, 1664)$ is
(a) 14976 (b) 1664 (c) 1152 (d) none of these
- Which one of the following rational number is a non-terminating decimal expansion:
(a) $\frac{33}{50}$ (b) $\frac{66}{180}$ (c) $\frac{6}{15}$ (d) $\frac{41}{1000}$
- L.C.M. of two co-prime numbers is always
(a) product of numbers (b) sum of numbers
(c) difference of numbers (d) none

- 12 If two positive integers a and b are written as $a = x^3y^2$ and $b = xy^3$; x, y are prime numbers, then HCF (a, b) is
 (a) xy (b) xy^2 (c) x^3y^3 (d) x^2y^2
- 13 The decimal expansion of the rational number $\frac{14587}{1250}$ will terminate after:
 (a) one decimal place (b) two decimal places
 (c) three decimal places (d) four decimal places
- 14 The decimal expansion of the rational number $\frac{33}{2^{2.5}}$ will terminate after
 (a) one decimal place (b) two decimal places
 (c) three decimal places (d) more than 3 decimal places

15 Complete The Following Factor Tree

